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IS 10172 (1982): Burs and Perforators for Drill Brace [MHD 7: Neurosurgery Instruments Implants and Accessories]

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Indian Standard

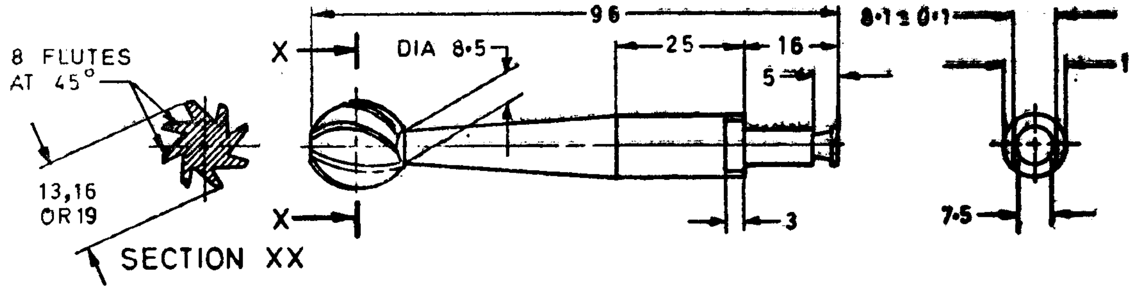
(Reaffirmed 2006)

SPECIFICATION FOR BURS AND PERFORATORS FOR DRILL BRACE

Neurosurgery Instruments Sectional Committee, CPDC 29 [Ref : Doc : CPDC 29 (1547)]

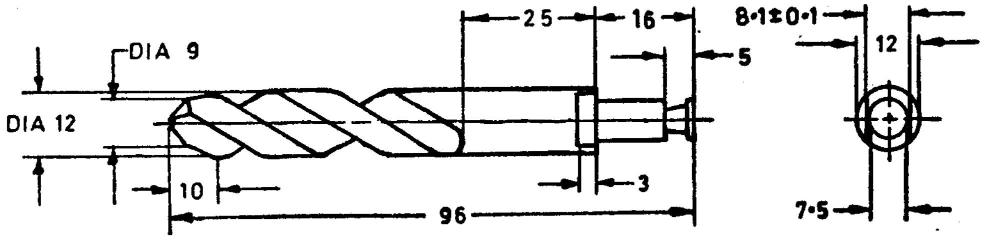
1. Scope — Specifies material, dimensions and other requirements for burs and perforators for drill brace used in neurosurgery.

2. Shape and Dimensions — As shown in Fig. 1 and 2.



All dimensions in millimetres.

FIG. 1 BUR



All dimensions in millimetres.

FIG. 2 PERFORATOR

2.1 The tolerances on various dimensions, where not specified, shall be permitted as follows:

a) ± 0.1 mm for dimensions up to 10.0 mm, and

b) ± 1.0 mm for dimensions above 10.0 mm.

3. Material — Stainless steel conforming to designation 30Cr13 of IS : 6603-1972 'Specification for stainless steel bars and flats', carbon steel or high speed steel suitable for the purpose.

4. Workmanship and Finish

4.1 The working end shall be symmetrical. Burring edges shall be concentric regular in spacing, well cut, sharp, clean, and free from nicks, high spots, feathers and pits. The instrument shall be balanced.

4.2 All edges except the burring edges shall be even, rounded and not sharp at any point. All surfaces shall be smooth and free from burs, pits, cracks and other surface flaws.

4.3 The tip of the perforator shall be concentric with the shank. The flutes shall be so designed that the cutting lips are straight and equal.

4.4 The perforator drill shall be right handed unless specified otherwise.

5. Hardness — The hardness of the working portion of burs and perforators, when tested in accordance with IS : 1501-1968 'Method for Vickers hardness test for steel (*first revision*)', shall be as given below:

a) For stainless steel 550 to 600 HV

b) For carbon steel 650 to 700 HV, and

c) For high speed steel 750 to 800 HV.

Adopted 21 April 1982

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6. Tests

6.1 ***Performance*** — Fit the bur or perforator in Hudson's brace or hand operated drilling machine and make ten holes in series in a fresh sheep bone of at least 10 mm thickness. Drill the holes without interruptions. The bur or perforator shall withstand the test without seizing or choking. The points and the tips of the burs and perforators shall not suffer any damage after this test and shall be fit for further service.

6.2 Corrosion ***Resistance*** — Test the instrument as prescribed in IS : 7531-1975 ' Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments '. It shall show no sign of corrosion after the test.

7. Marking — The perforators or burs shall be marked on their shank with the manufacturer's name, initials or recognized trade-mark and the diameter of working end.

7.1 ***ISI Certification Marking*** — Details available with the Indian Standards Institution.

6. Packing — The burs and perforators shall be packed in such a way that their working ends do not come in contact with any other metal surface. These shall be packed individually,

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